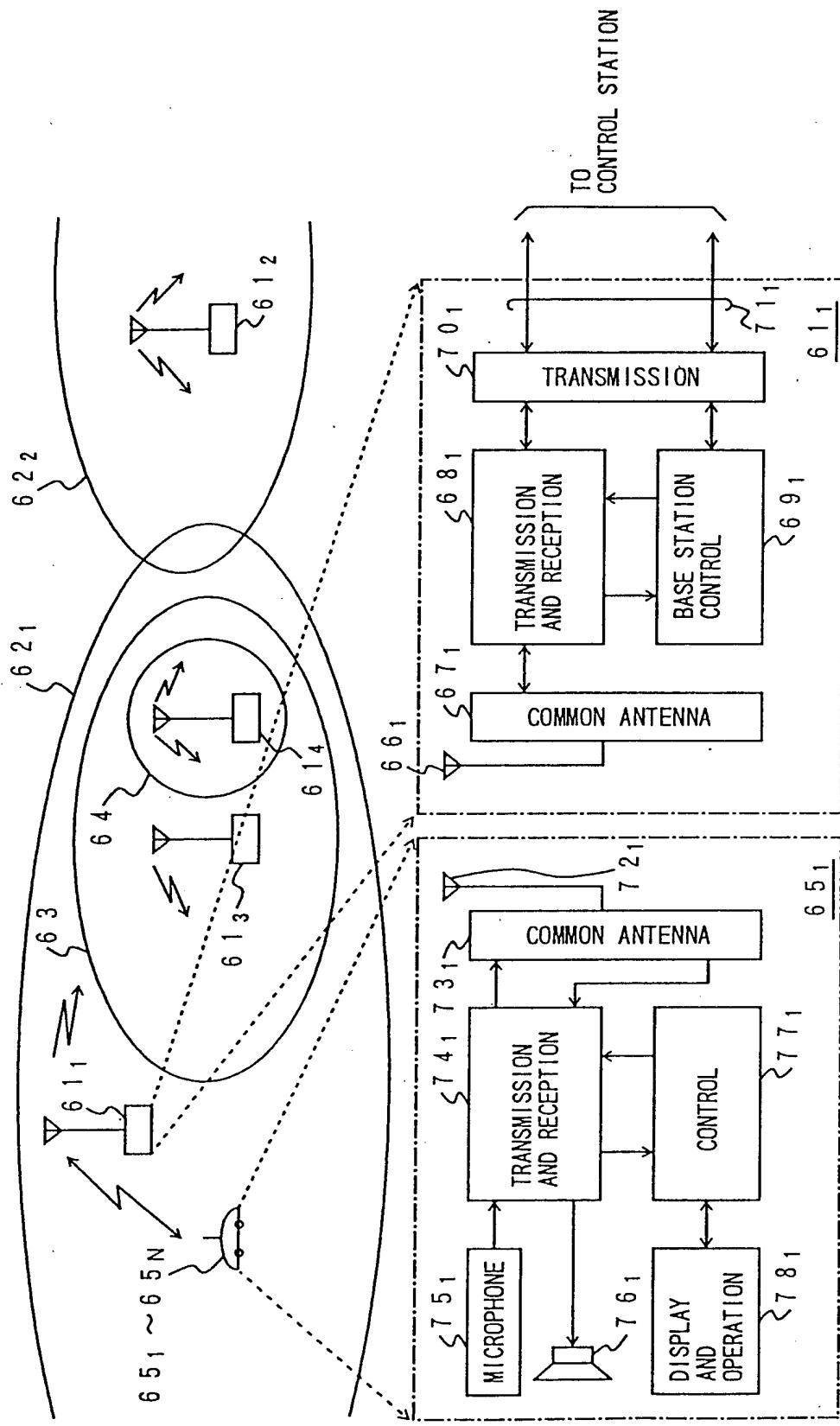


FIG. 1
PRIOR ART



32

32

FIG. 2 PRIOR ART

<i>RESTRICTION</i>
MESSAGE TYPE
NETWORK CODE
CONTROL INFORMATION
CONTROL CHANNEL CONFIGURATION INFORMATION
MOBILE STATION TRANSMISSION POWER SPECIFICATION
WAIT ENABLED LEVEL
WAIT DISABLED LEVEL
LOCATION REGISTERED AREA MULTIPLEX LEVEL
LOCATION CODE 1
⋮
LOCATION CODE N
MAXIMUM REPORTED NUMBER OF CHANNELS
⋮

FIG. 3
PRIOR ART

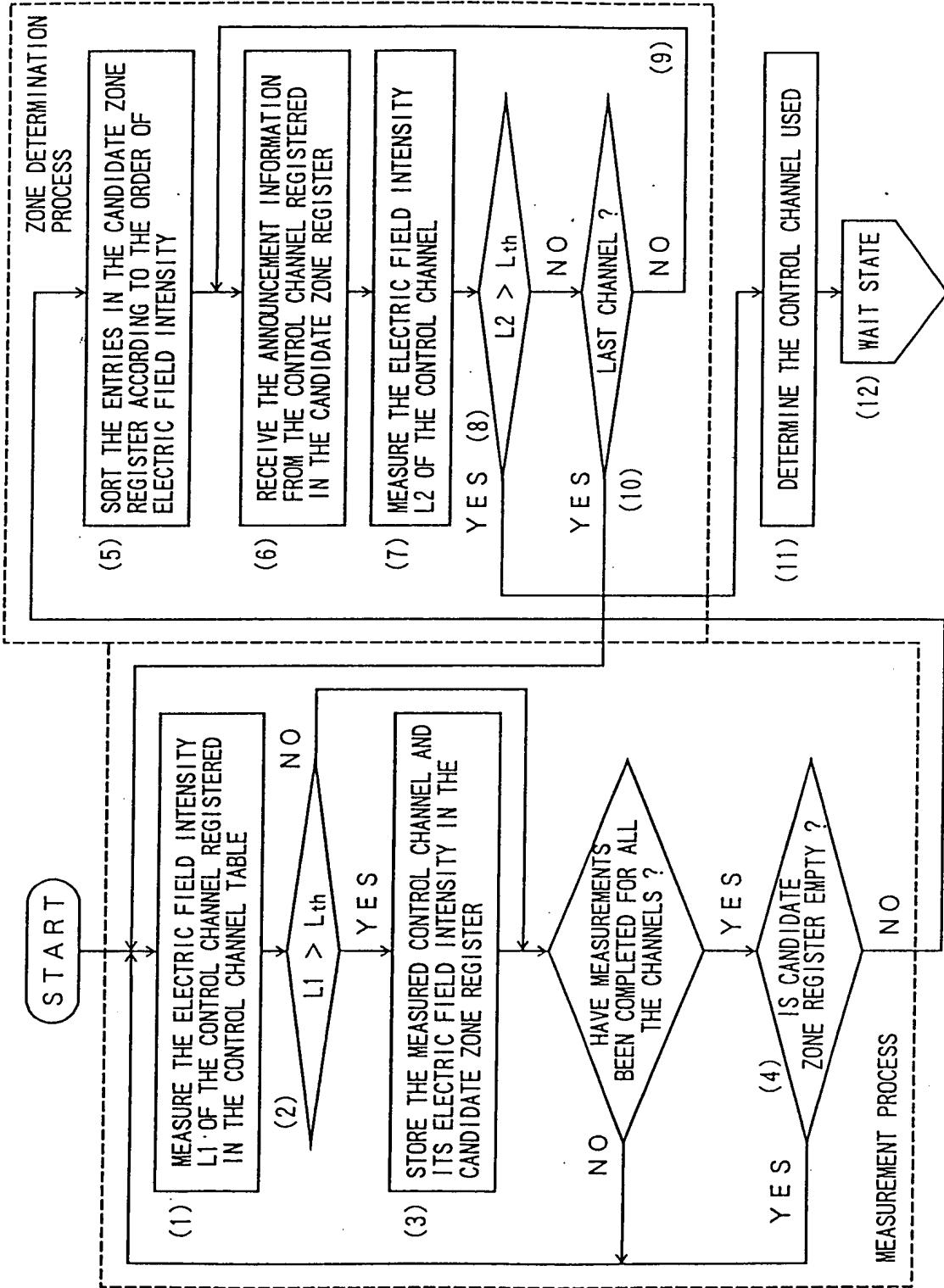
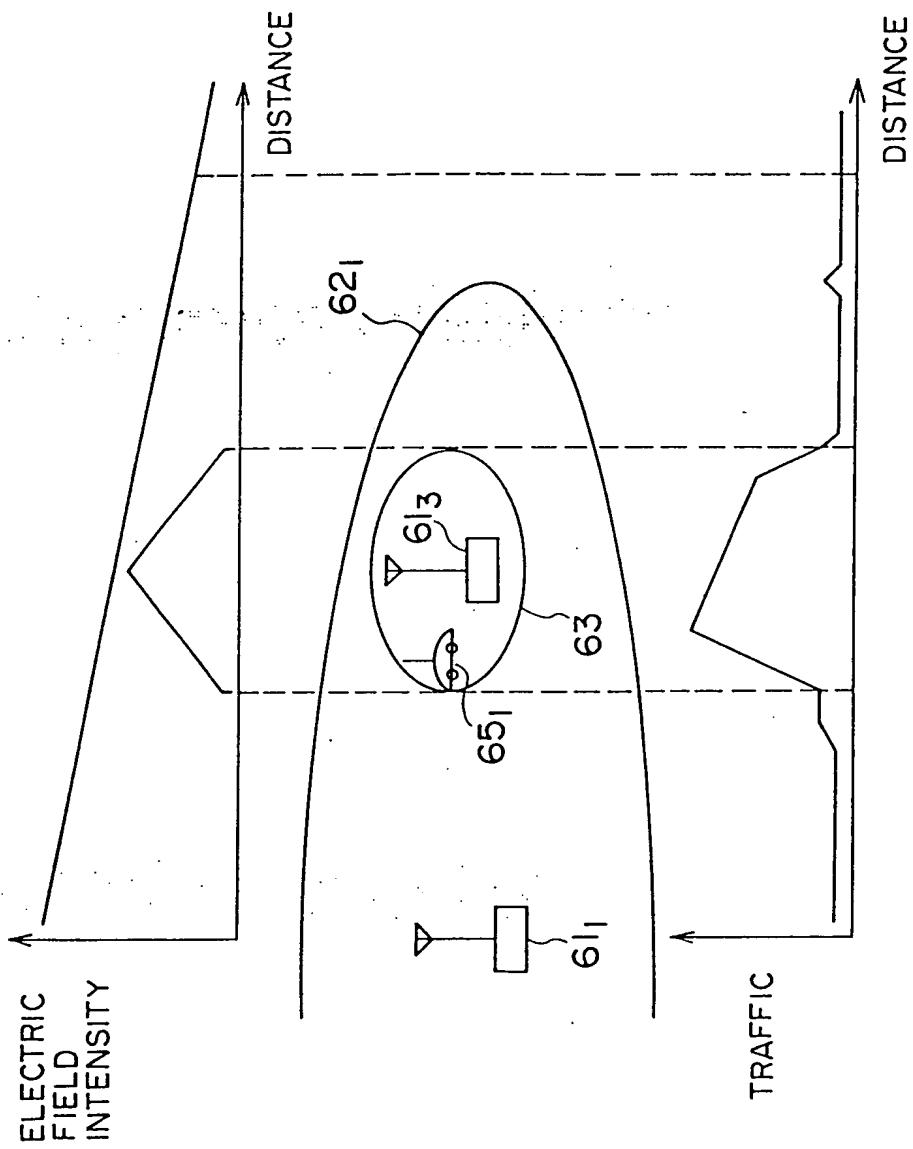


FIG. 4
PRIOR ART



MESSAGES - 062307

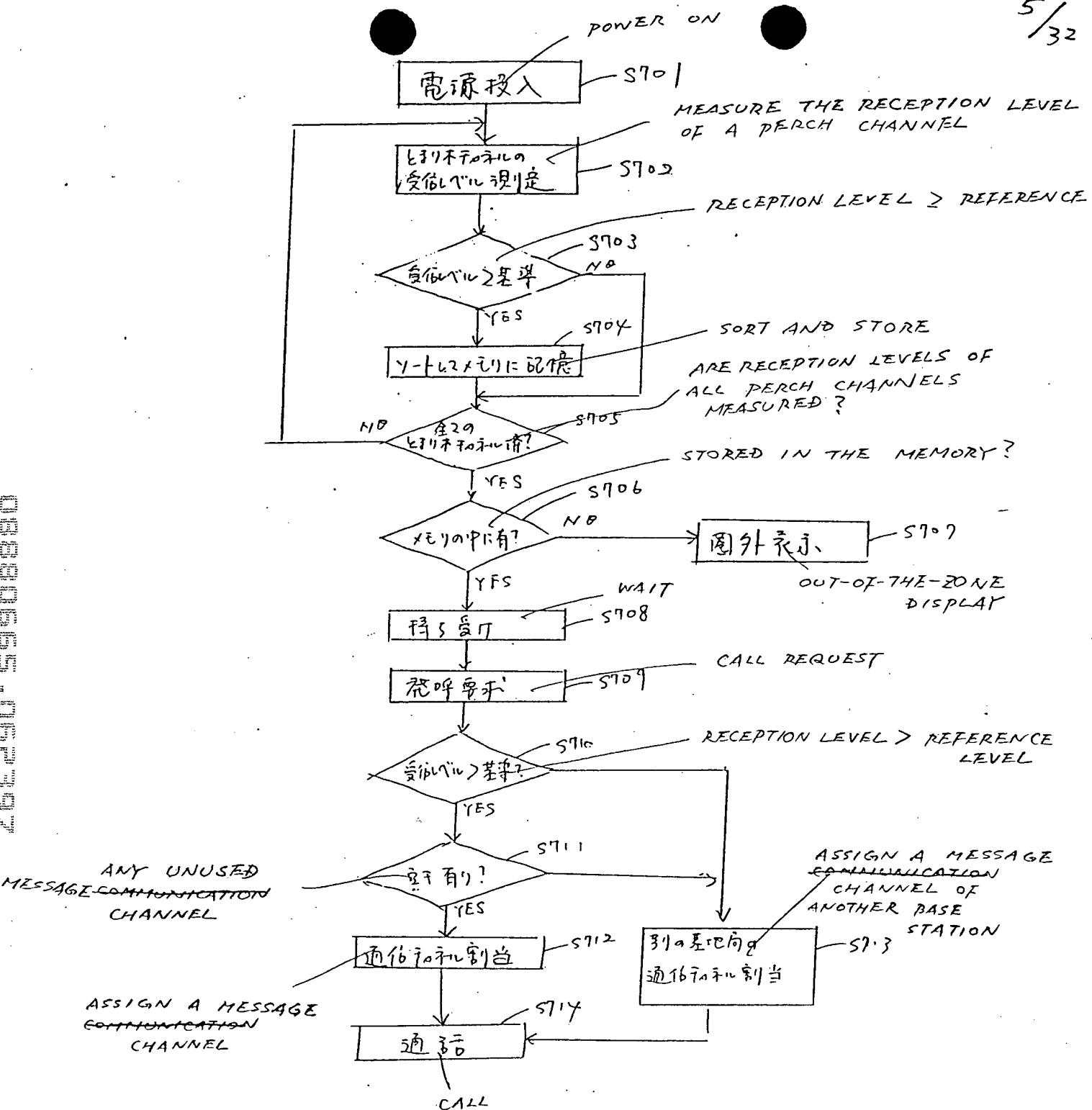


Fig. 5

PRIOR ART

FIG. 5

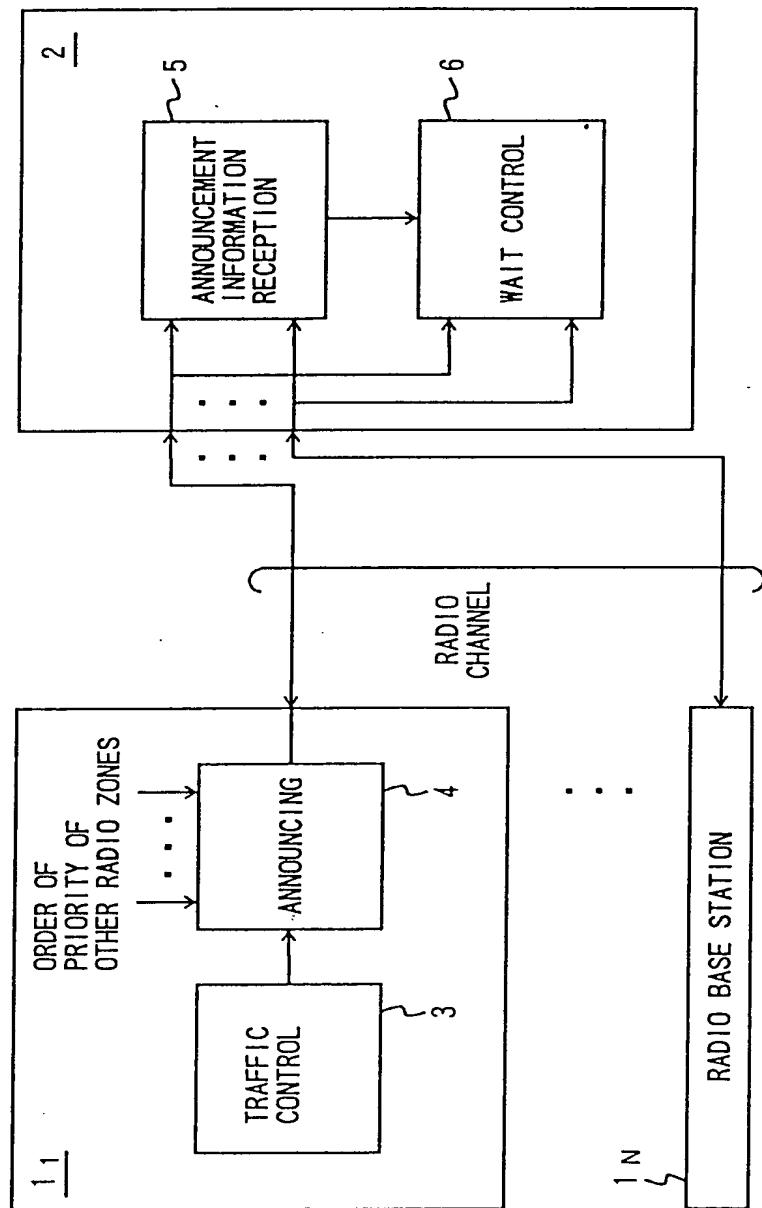


FIG. 6

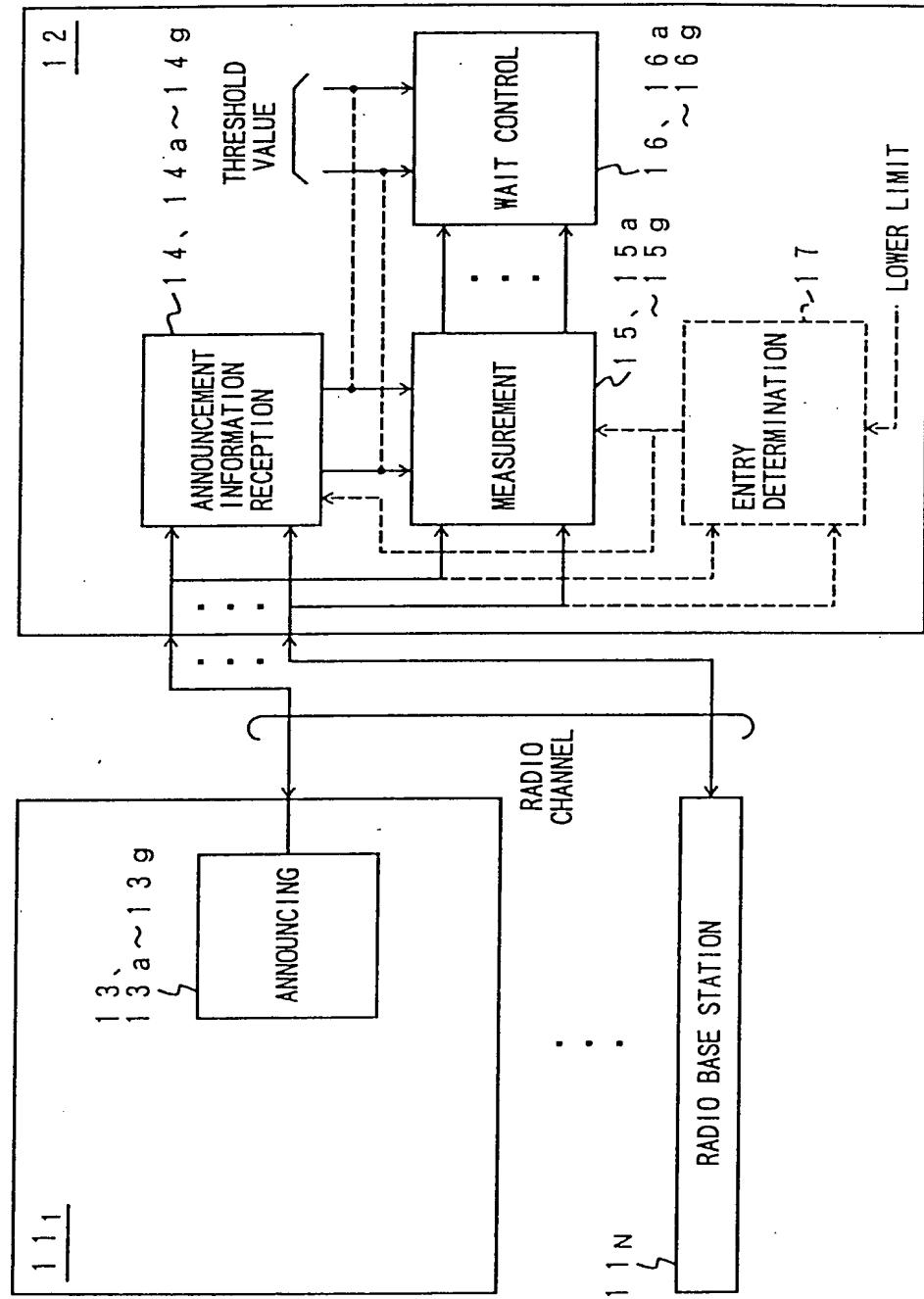


FIG. 7

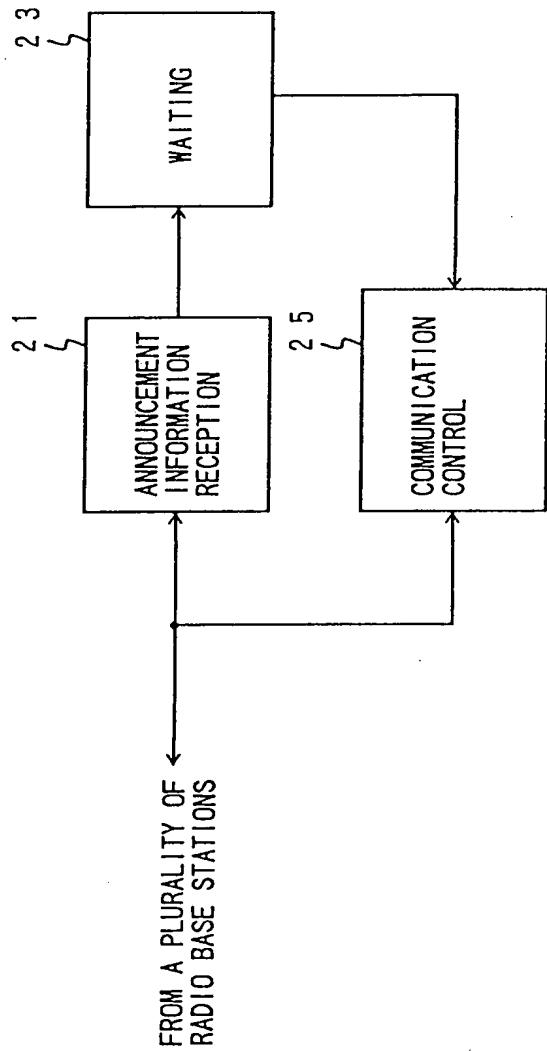
FIG. 7

FIG. 8

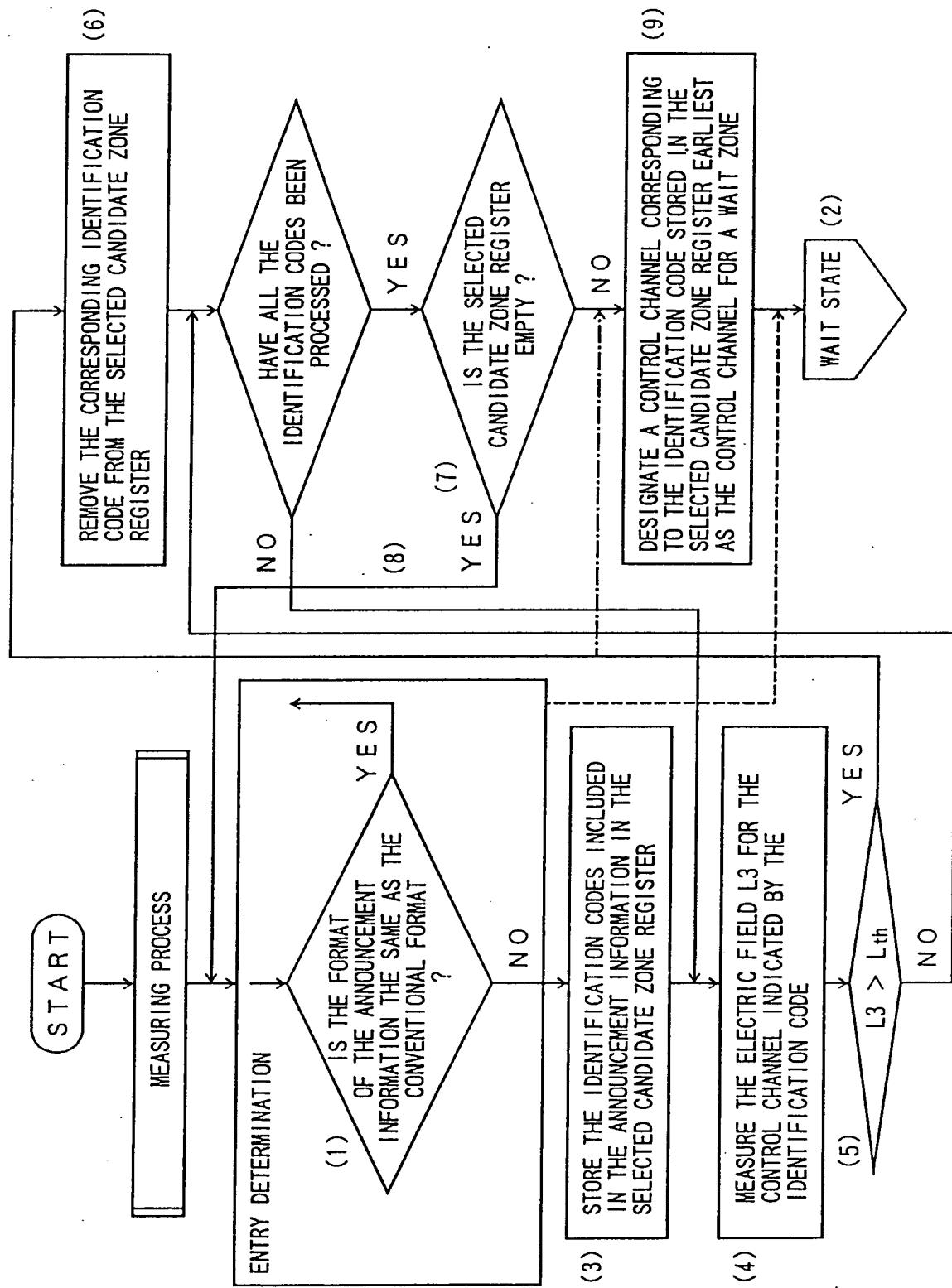


FIG. 10

~~FIG. 9~~

MESSAGE TYPE
MOBILE STATION TRANSMISSION POWER SPECIFICATION
CONTROL CHANNEL IDENTIFICATION CODE C ₄
CONTROL CHANNEL IDENTIFICATION CODE C ₃
CONTROL CHANNEL IDENTIFICATION CODE C ₁
WAIT ENABLED LEVEL (LOCAL)
WAIT DISABLED LEVEL (LOCAL)
LOCATION REGISTERED AREA MULTIPLEX LEVEL

~~FIG. 10~~

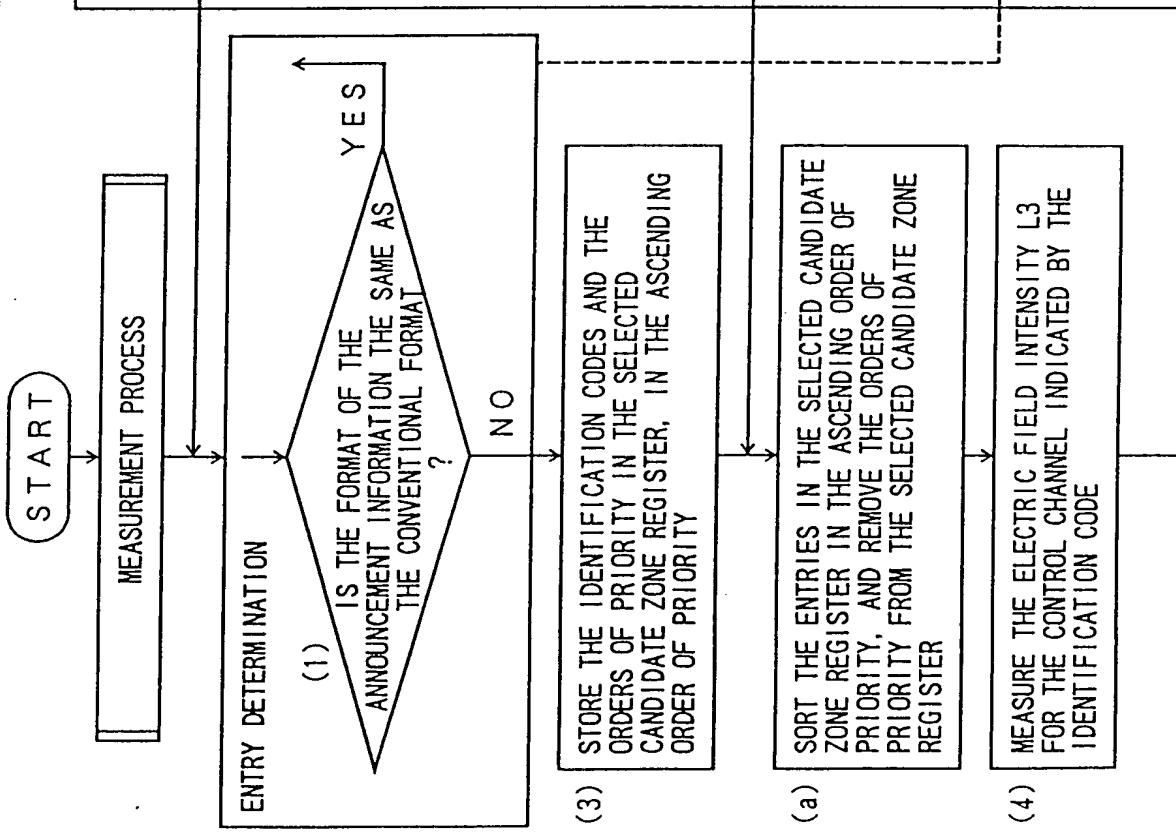


FIG. 12

~~FIG. 11~~

MESSAGE TYPE
MOBILE STATION TRANSMISSION POWER SPECIFICATION
CONTROL CHANNEL IDENTIFICATION CODE C ₁
ORDER OF PRIORITY P ₁
CONTROL CHANNEL IDENTIFICATION CODE C ₃
ORDER OF PRIORITY P ₃
CONTROL CHANNEL IDENTIFICATION CODE C ₄
ORDER OF PRIORITY P ₄
WAIT ENABLED LEVEL (LOCAL)
WAIT DISABLED LEVEL (LOCAL)
LOCATION REGISTERED AREA MULTIPLEX LEVEL

FIG. 13

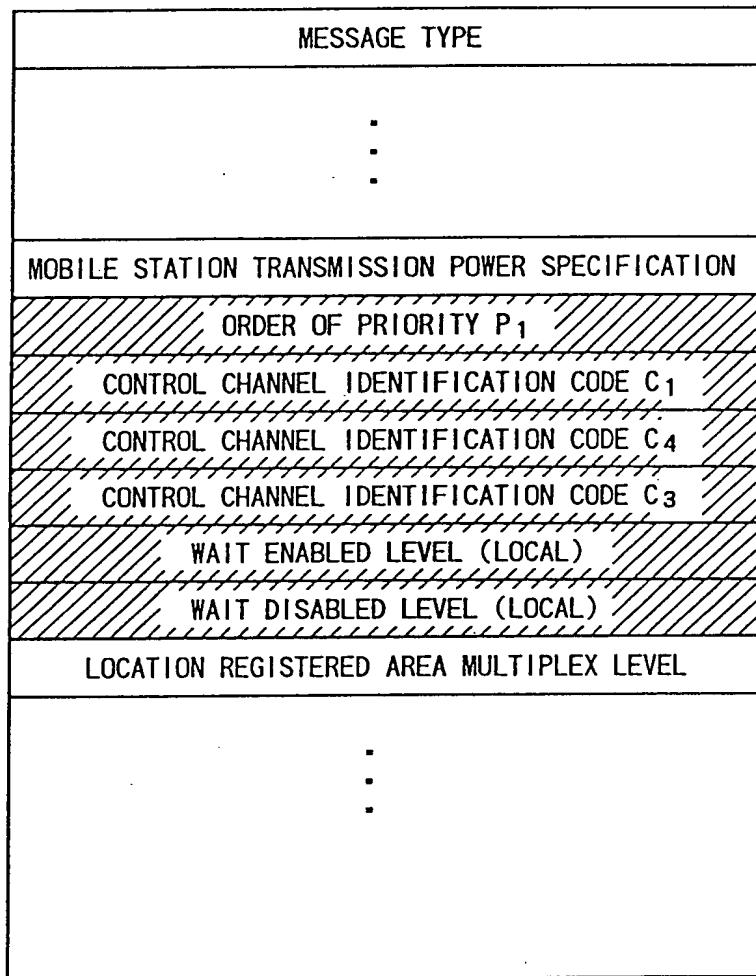
~~FIG. 12~~

FIG. 13

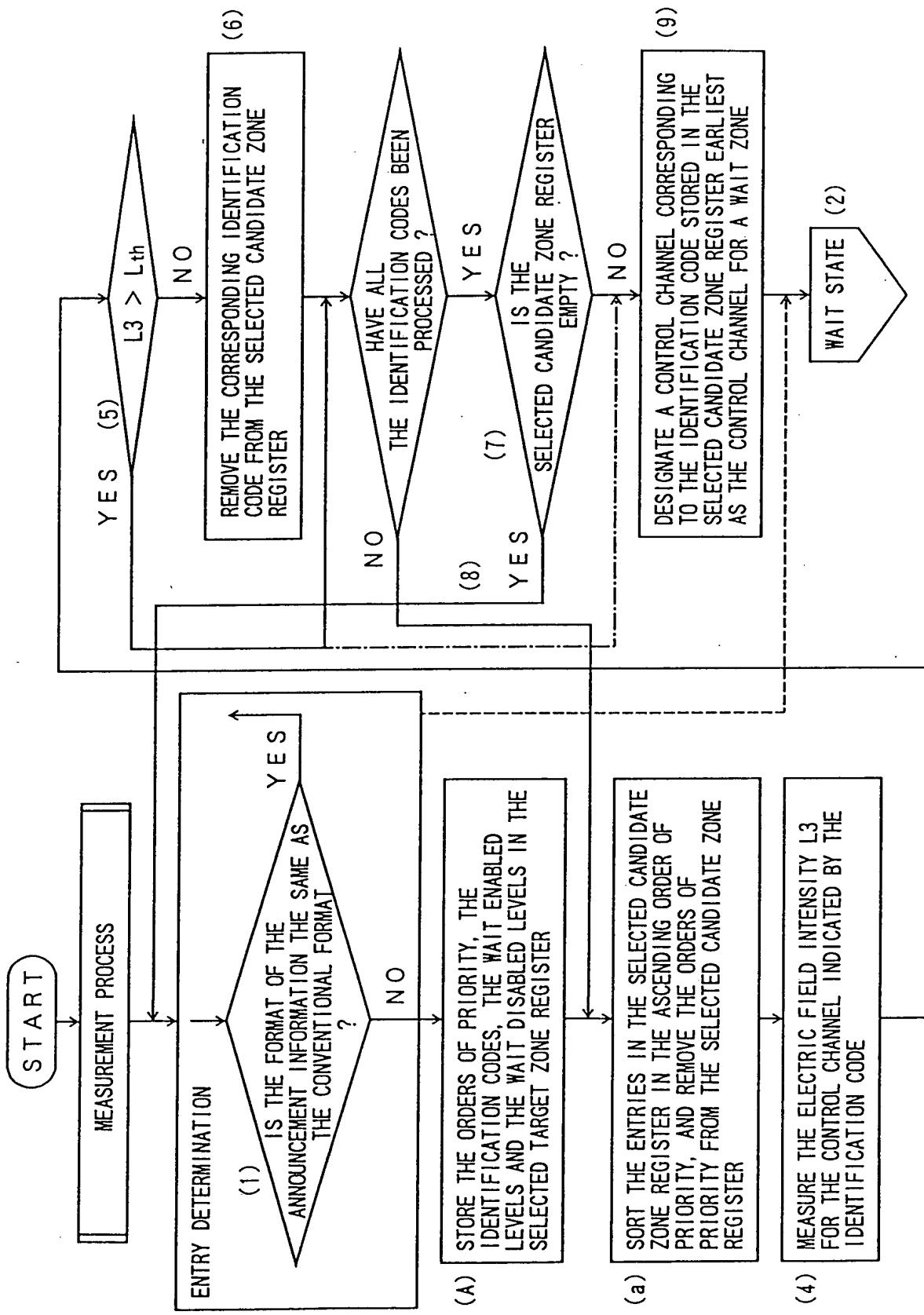


FIG. 15

FIG. 14

MESSAGE TYPE
•
•
•
MOBILE STATION TRANSMISSION POWER SPECIFICATION
ORDER OF PRIORITY P ₁
CONTROL CHANNEL IDENTIFICATION CODE C ₁
WAIT ENABLED LEVEL L _{th1}
WAIT DISABLED LEVEL L _{th1}
•
•
•
ORDER OF PRIORITY P ₄
CONTROL CHANNEL IDENTIFICATION INFORMATION C ₄
WAIT ENABLED LEVEL L _{th4}
WAIT DISABLED LEVEL L _{th4}
LOCATION REGISTERED AREA MULTIPLEX LEVEL
•
•
•

FIG. 15

FIG. 16

ZIGGARD "599082220

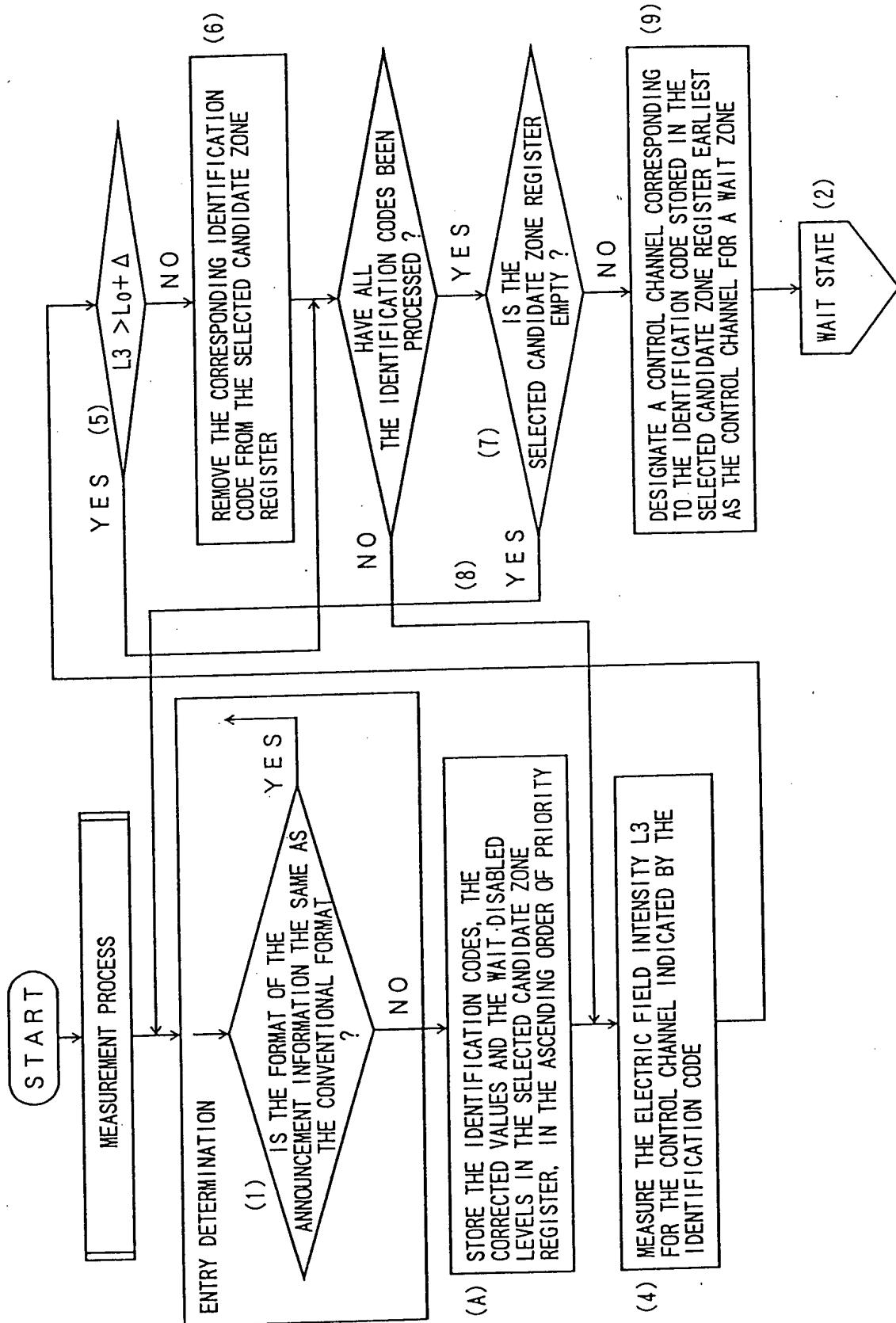


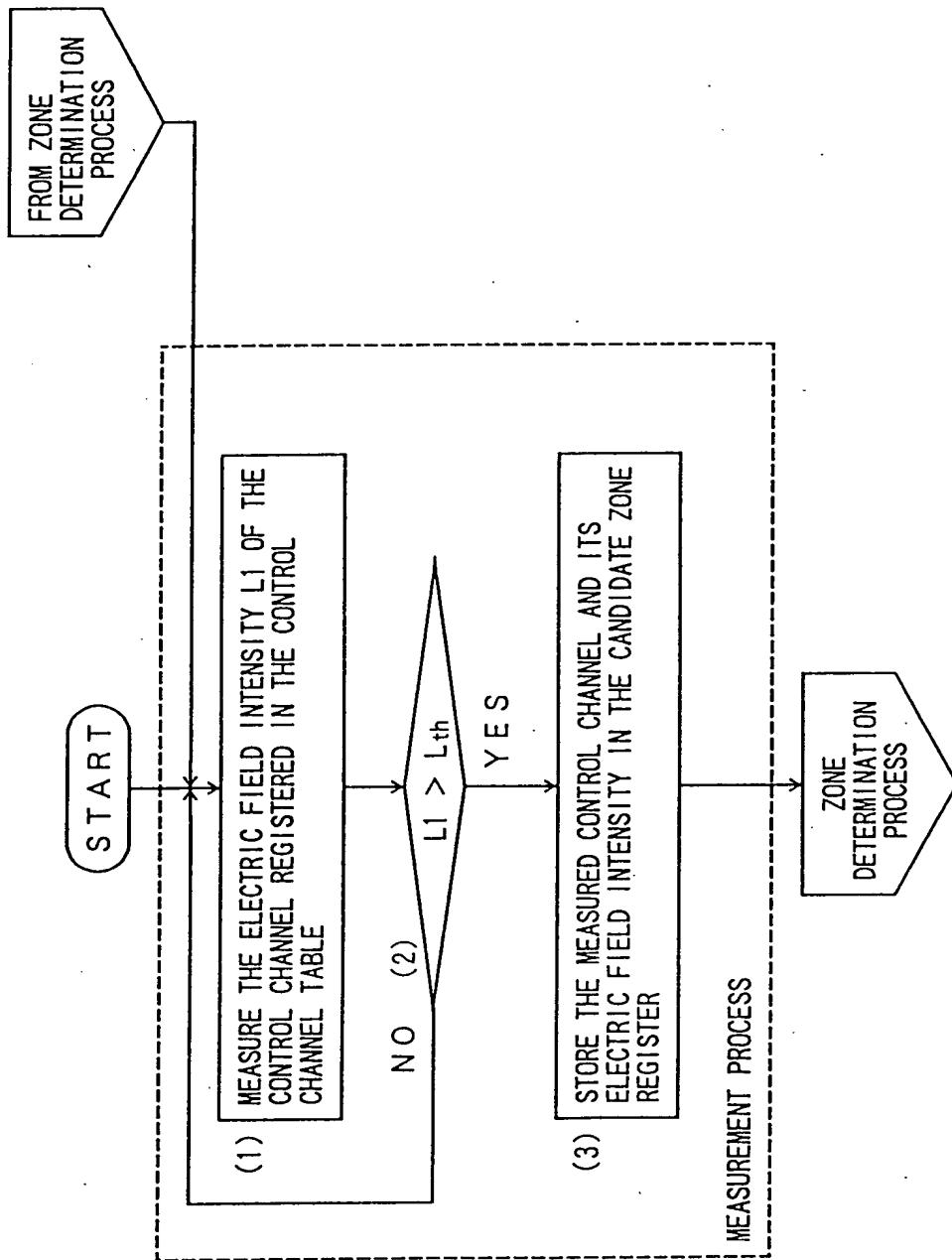
FIG. 17

~~FIG. 16~~

MESSAGE TYPE
MOBILE STATION TRANSMISSION POWER SPECIFICATION
ORDER OF PRIORITY P ₁
CONTROL CHANNEL IDENTIFICATION INFORMATION C ₁
CORRECTED VALUE Δ ₁
WAIT DISABLED LEVEL ℓ_{th1}
ORDER OF PRIORITY P ₄
CONTROL CHANNEL IDENTIFICATION INFORMATION C ₄
CORRECTED VALUE Δ ₄
WAIT DISABLED LEVEL ℓ_{th4}
LOCATION REGISTERED AREA MULTIPLEX LEVEL

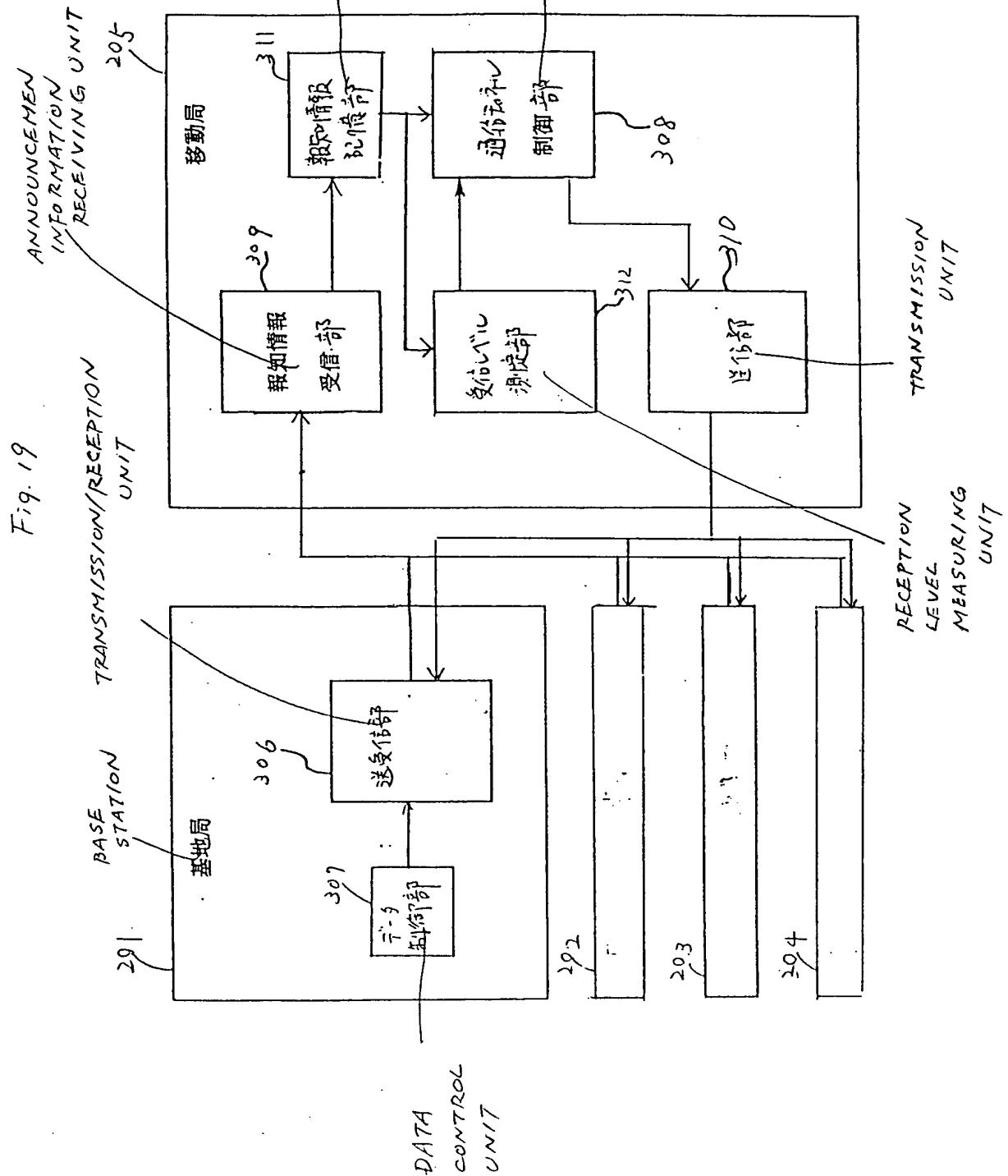
FIG. 17

F.G. 18



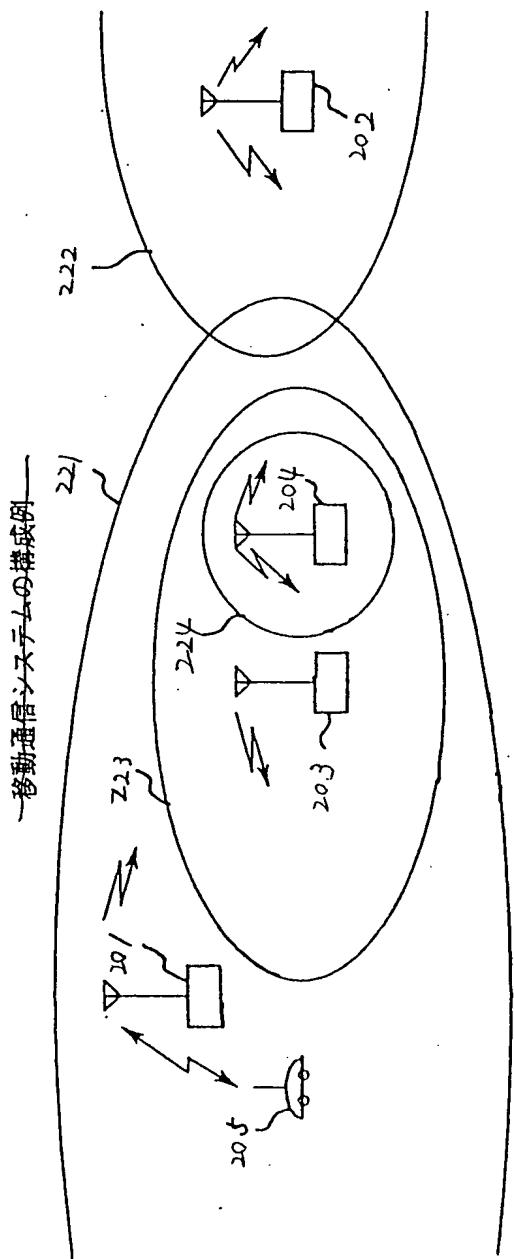
17/32

(井) 97.5.21 片山



7-2

Fig. 20

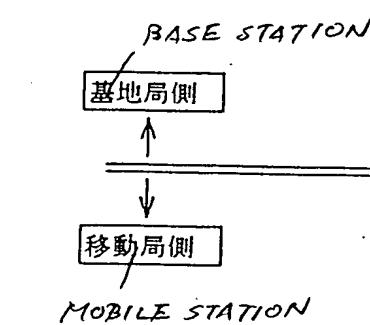


2/3

Fig. 21A

DATA CONTROL UNIT

2/32
2/32



データ制御部

7

送受信部

6

TRANSMISSION/RECEPTION UNIT

基地局側

↑

↓

移動局側

MOBILE STATION

RECEPTION LEVEL
MEASURING
UNIT

受信レベル測定部

12

報知情報記憶部

報知情報記憶部

通信チャネル
制御部

8

ANNOUNCEMENT INFORMATION
RECEIVING UNIT

ANNOUNCEMENT

INFORMATION
STORAGE UNIT

MESSAGE
COMMUNICATION CHANNEL
CONTROL UNIT

Fig. 21B

(b)

制御部は、発着呼時、先に基地局から受信した選択優先順位情報を基に、選択優先順位の高い順に該当基地局からの受信レベルを測定する。

S1

移動局は発着呼の際に、選択優先順位基地局が高く、該当基地局からの受信レベルが、しきい値よりも高い基地局に対し、チャネル割り当て要求を送出する。

S2

原理説明図

WHEN ORIGINATING A CALL OR RECEIVING A CALL,
THE MOBILE STATION ISSUES A REQUEST FOR A
MESSAGE COMMUNICATION CHANNEL TO THE HIGHEST-ORDER
BASE STATION OF THOSE BASE STATIONS THAT PROVIDE
A RECEPTION LEVEL HIGHER THAN A THRESHOLD LEVEL

MESSAGE

BEFORE ORIGINATING A CALL OR RECEIVING A CALL,
THE COMMUNICATION CHANNEL CONTROL UNIT MEASURES
THE LEVEL OF RECEPTION FROM THE BASE STATIONS
IN THE DESCENDING ORDER OF PRIORITY, BASED ON
THE ORDER OF PRIORITY RECEIVED FROM A BASE STATION

12/4

9.22

22/32

報知情報の例

INFORMATION ENTRY

DIRECTION

DOWNSTREAM

REMARKS

MESSAGE TYPE	情報要素	方 向	備 考
NETWORK CODE	メッセージ種別	下り	
RESTRICTION INFORMATION	網番号		
INFORMATION INDICATING THE ORDER OF PRIORITY	規制情報		
LOCATION CODE	制御チャネル構造情報		
OPTIONAL INFORMATION	移動局送信電力指定		制御チャネル用
LOCATION CODE	選択優先順位情報		自局用
OPTIONAL INFORMATION	待ち受け許可レベル		
LOCATION CODE	待ち受け劣化レベル		
MAXIMUM NUMBER OF CHANNELS	位置登録エリア多重数 (N)	1, 2, 4, 8, or 16	
OPTIONAL INFORMATION	位置番号	第1番目 1st	
LOCATION CODE	S	S	
OPTIONAL INFORMATION	位置番号	第n番目 nth	
LOCATION CODE	最大報告チャネル数	0 ~ M	
OPTIONAL INFORMATION	在囲ゾーン/セクタ判定用 とまり木チャネル数(M)	0 ~ 20	
LOCATION CODE	とまり木チャネル番号	第1番目 1st	
OPTIONAL INFORMATION	S	S	
LOCATION CODE	とまり木チャネル番号	第M番目 Mth	
OPTIONAL INFORMATION	位置登録タイマー		
PERCH CHANNEL CODE	拡張情報要素 (K)	0 ~ 127	
PERCH CHANNEL CODE	(拡張情報要素)		オペレータオプション用
ADDITIONAL INFORMATION ENTRY			OPERATOR OPTION
LOCATION REGISTRATION TIMER			

PERCH CHANNEL CODE

4/

Fig. 23

INFORMATION ENTRY DIRECTION REMARKS

MESSAGE CODE	情報要素	方 向	備 考
NETWORK CODE	メッセージ種別	下り	DOWNSTREAM
RESTRICTION INFORMATION	網番号		
	規制情報		
	制御チャネル構造情報		
	移動局送信電力指定		制御チャネル用
MAXIMUM REPORTED NUMBER OF CHANNELS	待ち受け許可レベル		WAIT ENABLED LEVEL
	待ち受け劣化レベル		WAIT DISABLED LEVEL
	位置登録エリア多重数 (N)		1, 2, 4, 8 or 16
PERCH CHANNEL CODE	位置番号 LOCATION		第1番目 1st
	S CODE	S	
	位置番号		第n番目 nth
	最大報告チャネル数		0 ~ M
	在園ゾーン/セクタ判定用 とまり木チャネル数 (M)		0 ~ 20 1st
	とまり木チャネル番号		第1番目 (選択優先順位順に送出)
	S	S	
	とまり木チャネル番号		第M番目 Mth
	位置登録タイマ		
	拡張情報要素 (K)		0 ~ 127
	(拡張情報要素)	↓	オペレータオプション用
	OPERATOR OPTION		
	ADDITIONAL INFORMATION ENTRY		
	LOCATION REGISTRATION TIMER		

CONTROL CHANNEL
CONFIGURATION INFORMATION

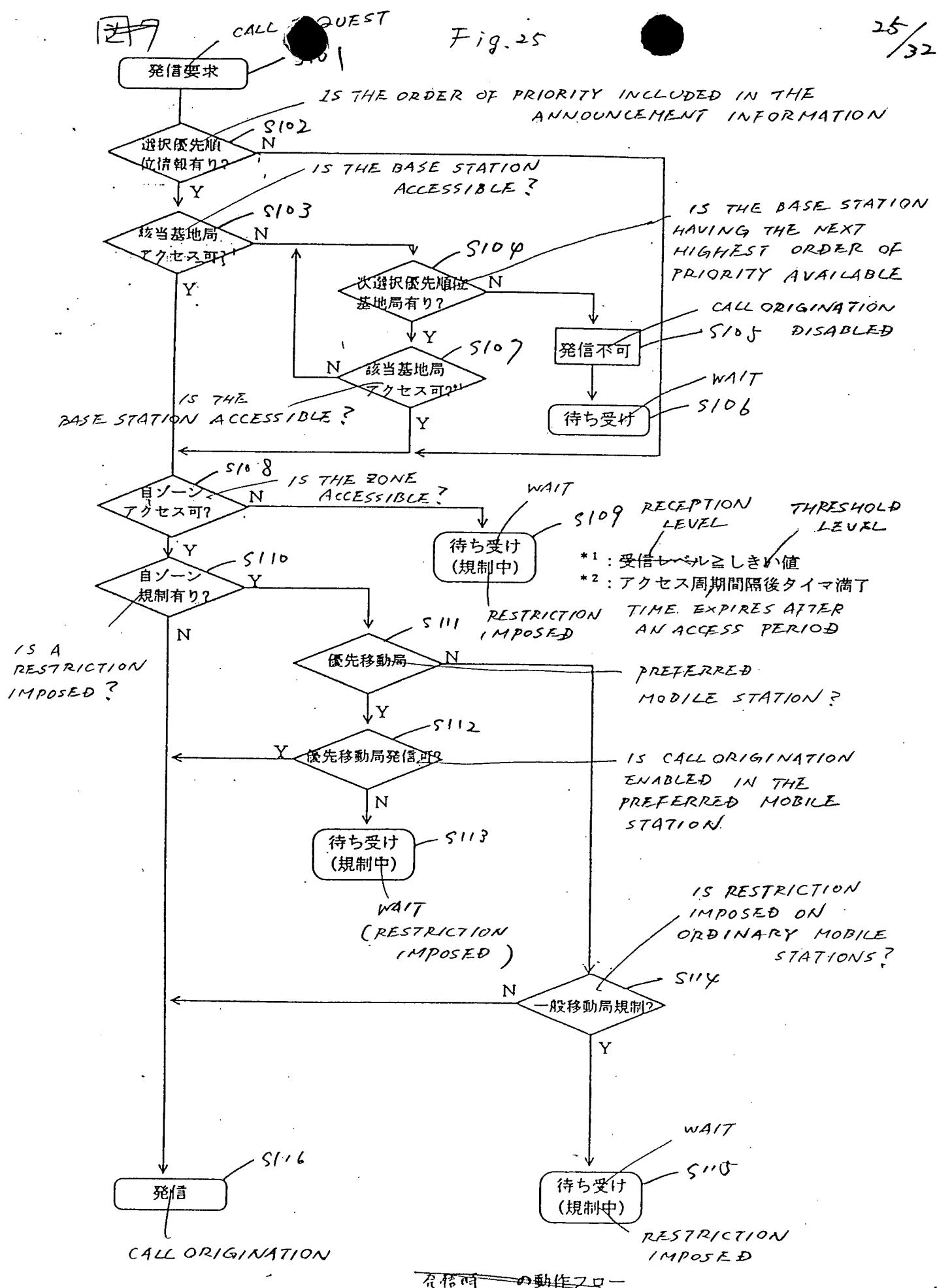
MOBILE STATION TRANSMISSION POWER SPECIFICATION
FOR CONTROL CHANNEL

LOCATION REGISTERED AREA
MULTIPLEX LEVEL
NUMBER OF PERCH CHANNELS TO BE SEARCHED FOR DETERMINATION OF A ZONE
(TRANSMITTED IN THE DESCENDING ORDER OF PRIORITY)

Fig. 24

MESSAGE TYPE	INFORMATION ENTRY	DIRECTION	REMARKS
報知情報の例	情報要素	方向	備考
MESSAGE TYPE	メッセージ種別	下り	
NETWORK CODE	網番号		CONTROL CHANNEL CONFIGURATION INFORMATION
RESTRICTION INFORMATION	規制情報		MOBILE STATION TRANSMISSION POWER SPECIFICATION
	制御チャネル構造情報		FOR CONTROL CHANNEL
	移動局送信電力指定		制御チャネル用
	待ち受け許可レベル		WAIT ENABLED LEVEL
	待ち受け劣化レベル		WAIT DISABLED LEVEL
MAXIMUM REPORTED NUMBER OF CHANNELS	位置登録エリア多重数 (N)		1, 2, 4, 8 or 16
OPERCH CHANNEL CODE	位置番号 LOCATION		第1番目 (1)
OPERCH CHANNEL CODE	S CODE	S	
OPERCH CHANNEL CODE	位置番号	第n番目 (n)	MULTIPLEX LEVEL
OPERCH CHANNEL CODE	最大報告チャネル数	0~M	
OPERCH CHANNEL CODE	在図ゾーン/セクタ判定用 とまり木チャネル数 (M)	0~20	NUMBER OF PERCH CHANNELS TO BE SEARCHED FOR DETERMINATION OF A ZONE
OPERCH CHANNEL CODE	とまり木チャネル番号	第1番目 1st	
OPERCH CHANNEL CODE	選択優先順位情報	(第1番目とまり木チャネルの優先順位情報)	
OPERCH CHANNEL CODE	S	S	
OPERCH CHANNEL CODE	とまり木チャネル番号	第M番目 Mth	INFORMATION INDICATING THE ORDER OF PRIORITY OF THE 1st PERCH CHANNEL
OPERCH CHANNEL CODE	選択優先順位情報	(第M番目とまり木チャネルの優先順位情報)	
OPERCH CHANNEL CODE	位置登録タイマ		
ADDITIONAL INFORMATION ENTRY	拡張情報要素 (K)	0~127	INFORMATION INDICATING THE ORDER OF PRIORITY OF THE Mth PERCH CHANNEL
ADDITIONAL INFORMATION ENTRY	(拡張情報要素)	オペレータオプション用	
INFORMATION INDICATING THE ORDER OF PRIORITY		OPERATOR OPTION	
INFORMATION INDICATING THE ORDER OF PRIORITY		LOCATION REGISTRATION TIMER	

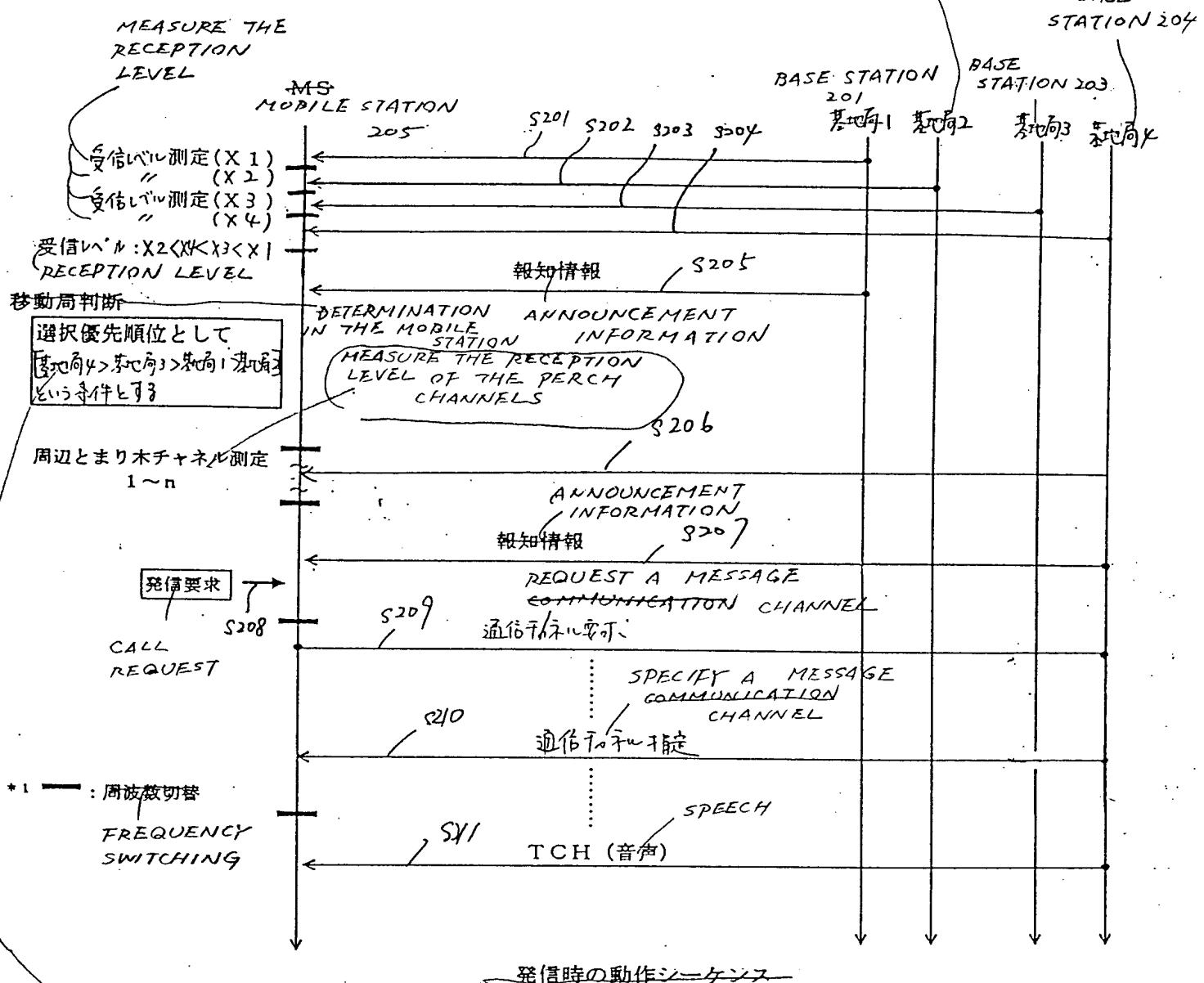
Fig. 25



21/8

Fig. 26

26/32



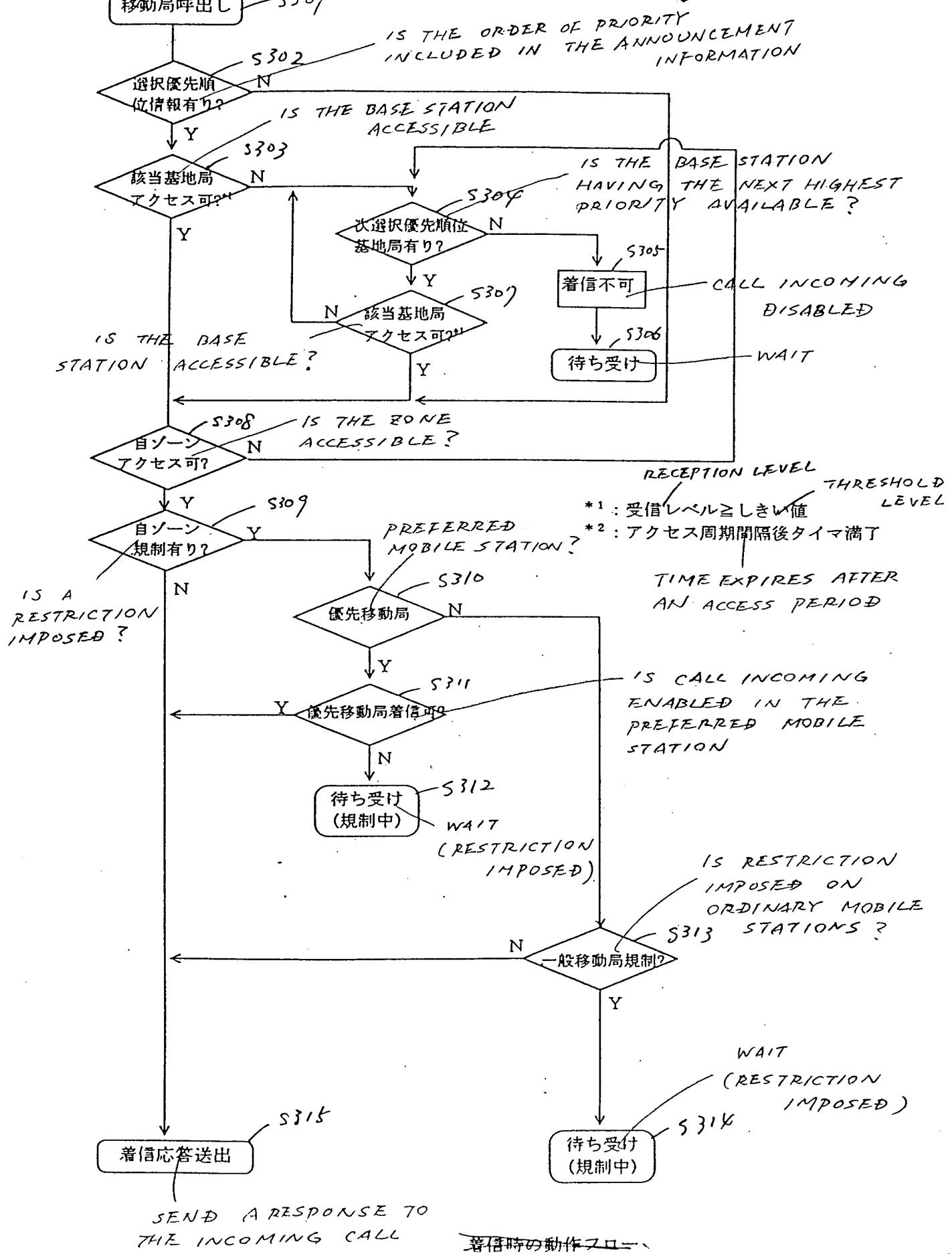
THE ORDER OF PRIORITY :

BASE STATION 204 > BASE STATION 203 > BASE STATION 201 > BASE STATION 202

~~349~~ MOBILE STATION IS CALLED

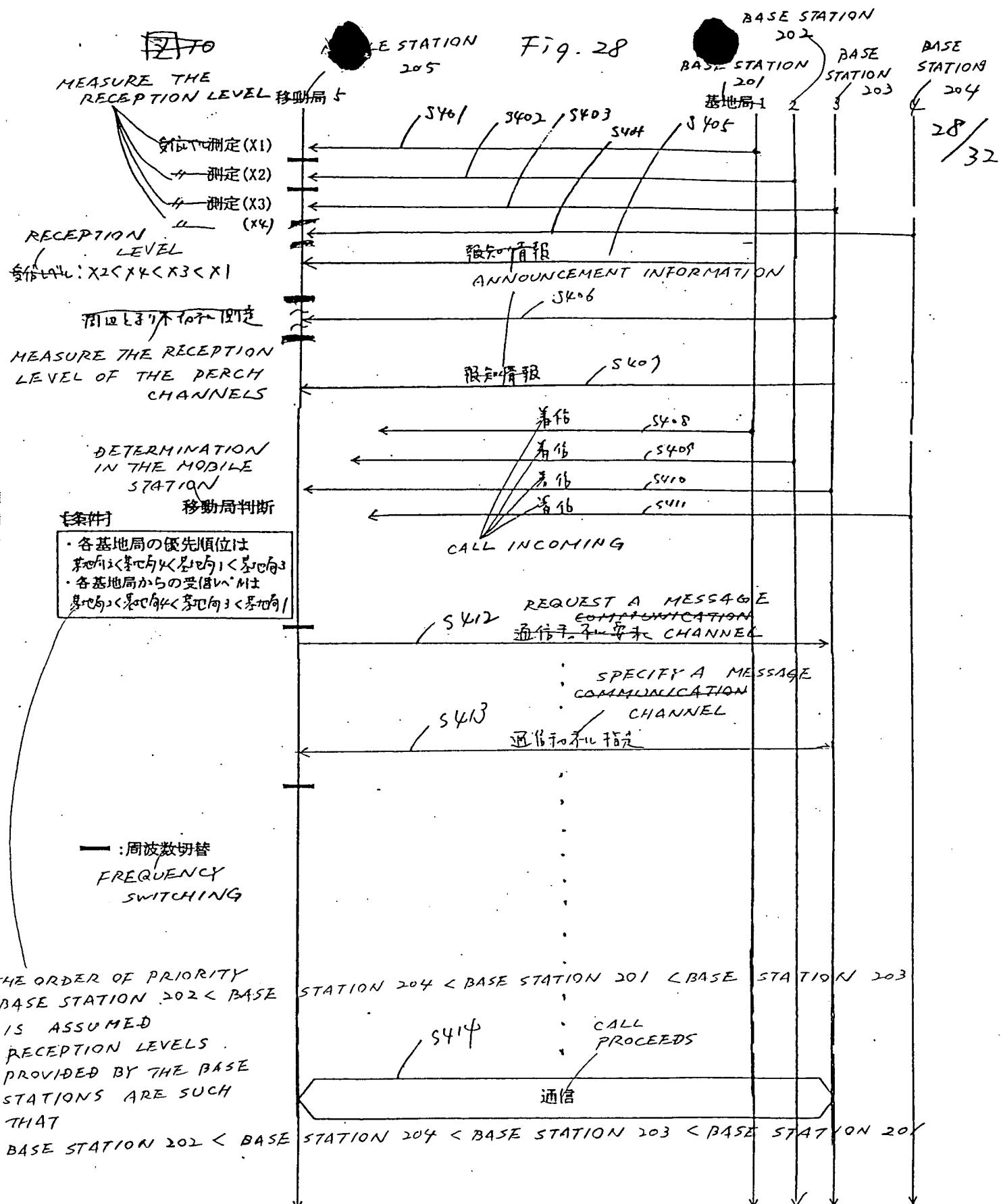
Fig. 27

27
/ 32



9 /

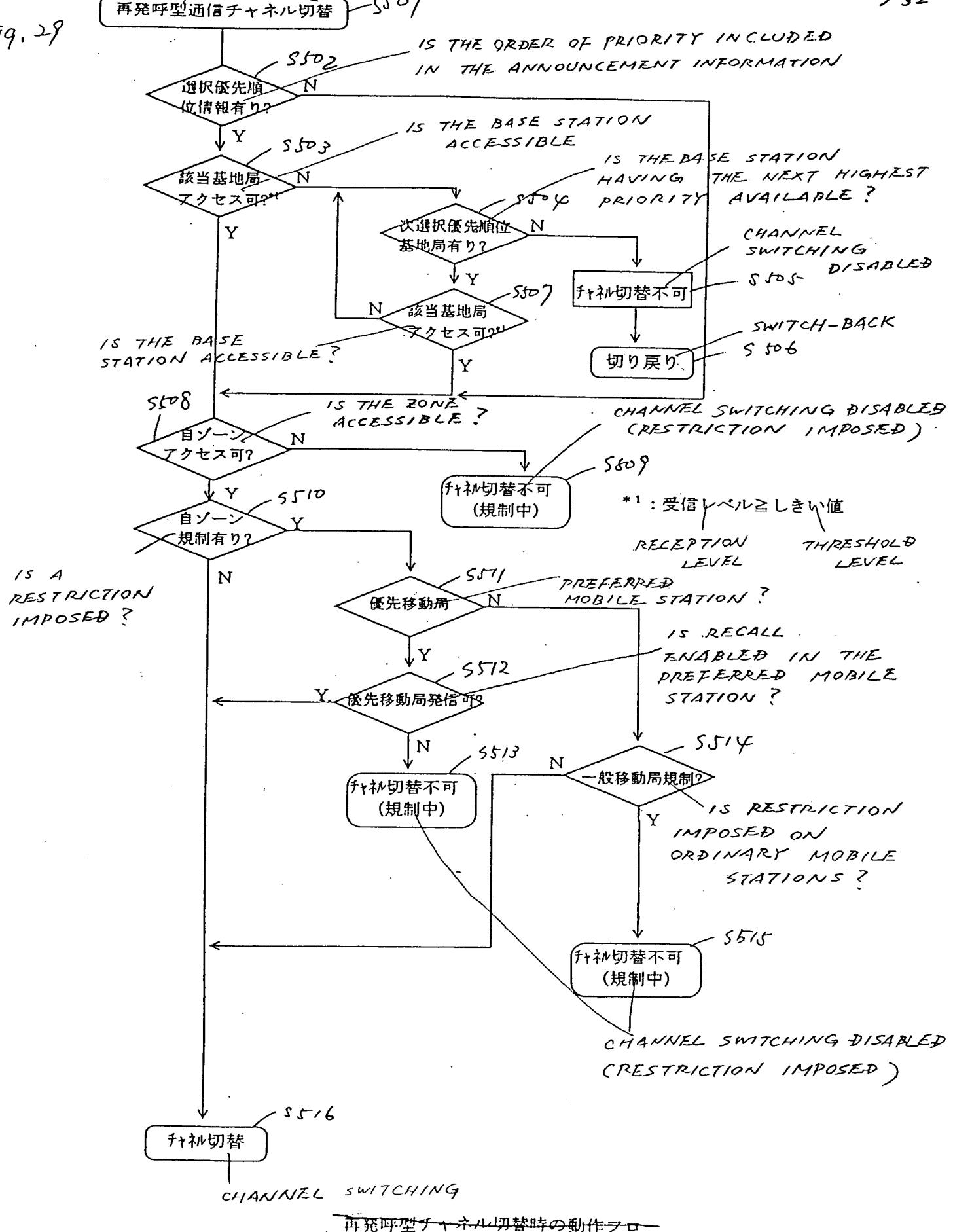
Fig. 28

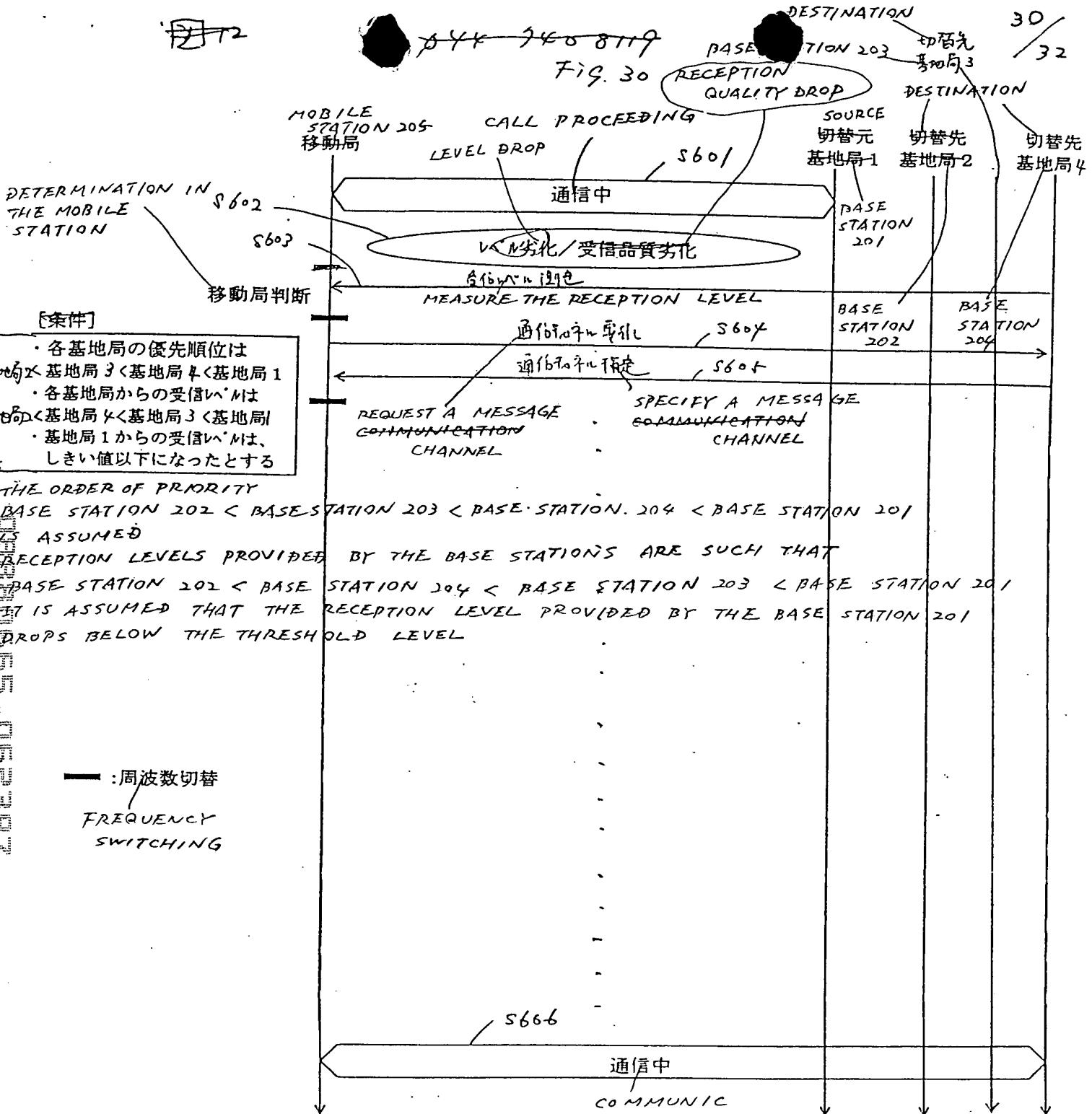
—着信時の動作—ターン

RECALL COMMUNICATION CHANNEL SWITCHING

29/32

Fig. 29





再発呼型チャネル切替制御シーケンス図

1213

Fig. 31

31/32

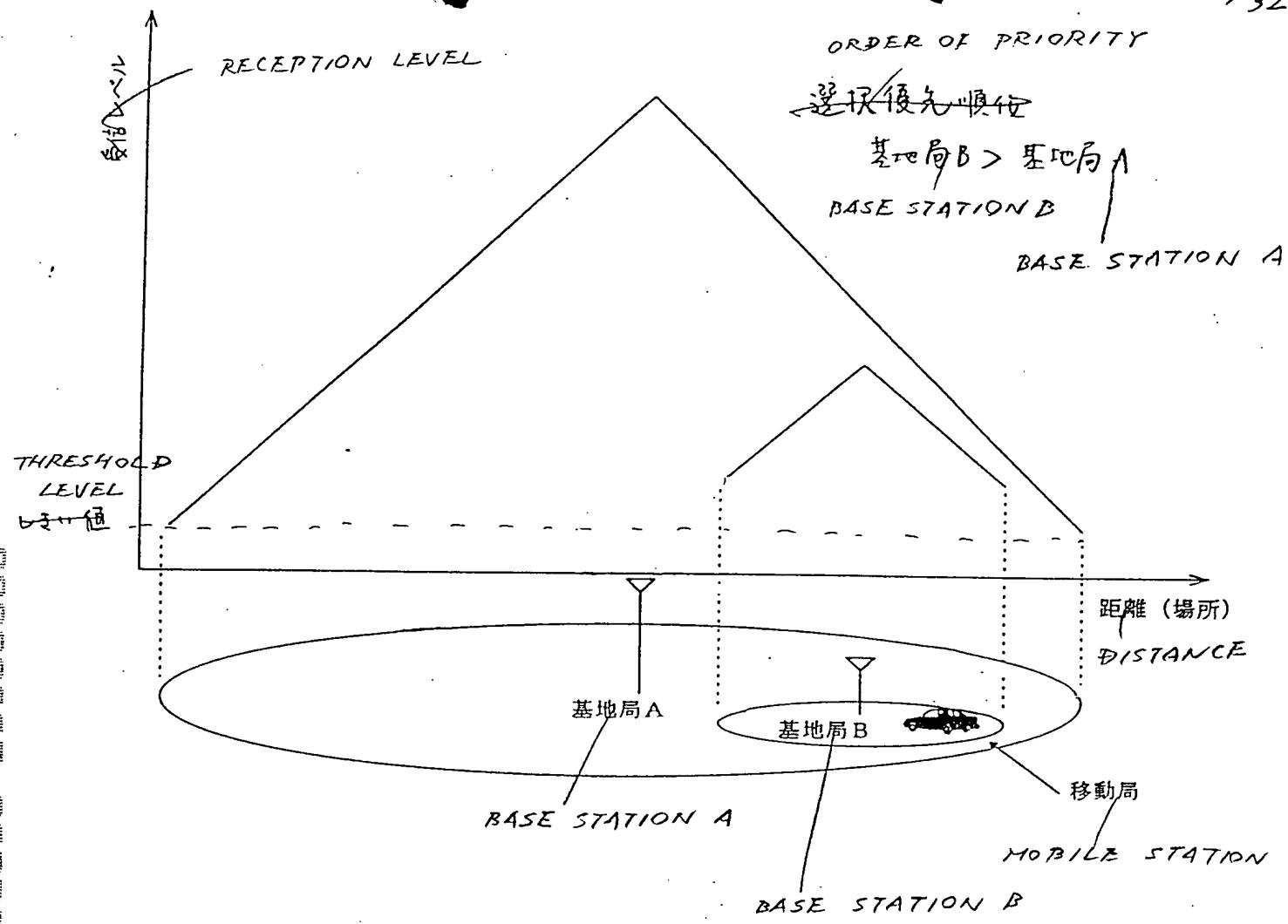


Fig. 32

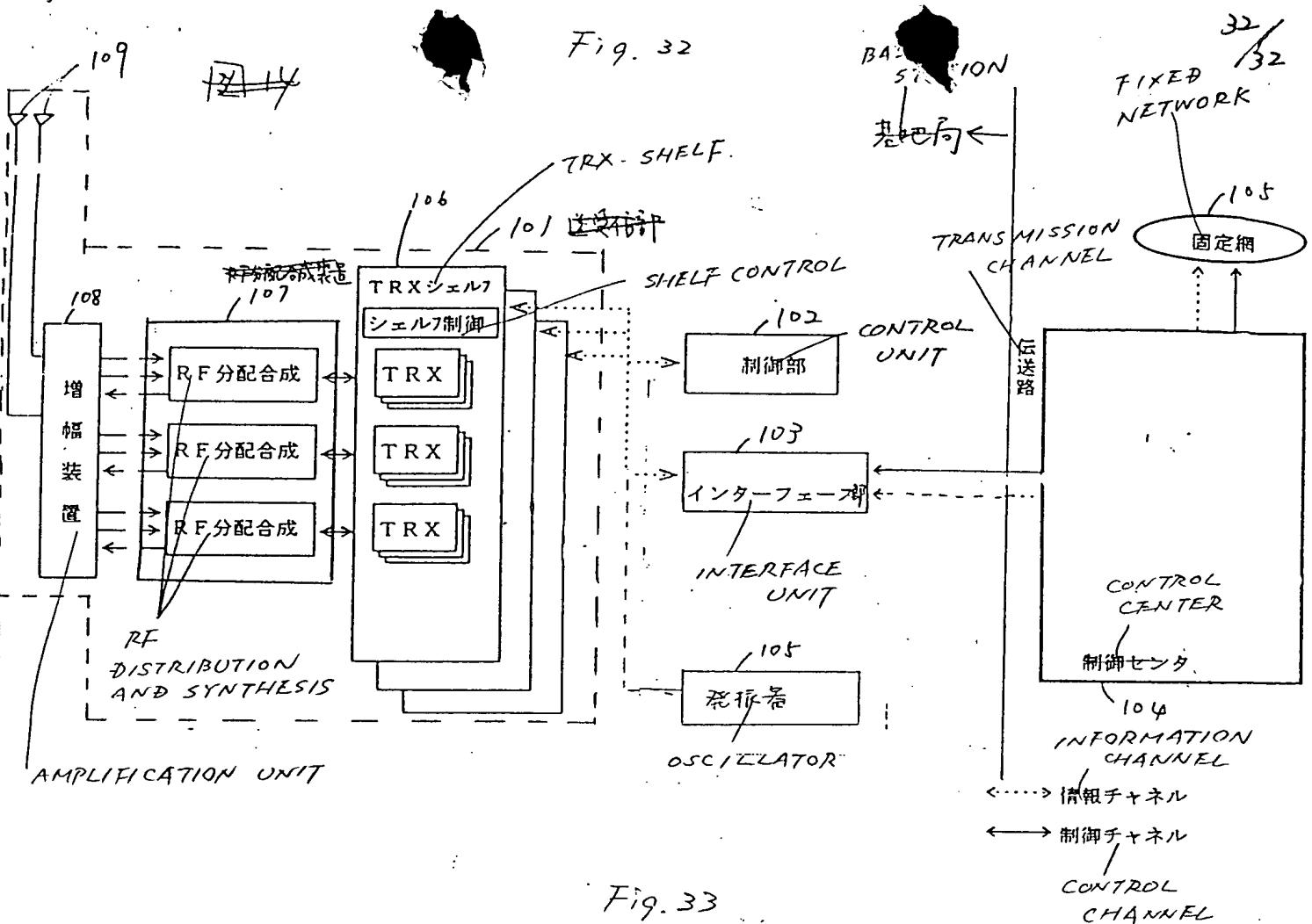


Fig. 33

